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## AMENDMENTS TO THE SPECIFICATION

On page 11, lines 9-12 please make the following corrections

[44] "~~Alkylthio-Thioalkyl~~" refers to a moiety of the formula  $-SR^d$ , where  $R^d$  is alkyl as defined herein.

[45] "~~Arylthio-Thioaryl~~" refers to a moiety of the formula  $-SR^e$ , where  $R^e$  is aryl as defined herein.

Please amend the abstract on page 37 as follows:

## ABSTRACT

The present invention provides a method for producing 2-, 6-, 8- and 9-substituted highly substituted-purine compounds from 4,6-dihalo-5-nitro-2-alkyl-pyrimidine compounds in solution or by solid phase techniques. The present process provides for the sequential introduction of amine substituents at the 4- and 6- positions, displacement of an alkylsulfony group at the 2- position of the pyrimidine, reduction of the nitro group and formation of the imidazole portion of the purine compound. Furthermore, the methods of the present invention are ideally suited to the allow preparation of a library of purine compounds